

OIPE

# 2

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/803,810

DATE: 03/30/2001  
 TIME: 14:50:30

Input Set : A:\Seqlist.txt  
 Output Set: N:\CRF3\03302001\I803810.raw

ENTERED

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4 <110> APPLICANT: Nelsestuen, Gary L.
6 <120> TITLE OF INVENTION: MODIFIED VITAMIN K-DEPENDENT
7 POLYPEPTIDES
9 <130> FILE REFERENCE: 09531/002001
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/803,810
C--> 12 <141> CURRENT FILING DATE: 2001-03-12
14 <160> NUMBER OF SEQ ID NOS: 18
16 <170> SOFTWARE: FastSEQ for Windows Version 3.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 44
20 <212> TYPE: PRT
21 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
24 <221> NAME/KEY: MOD_RES
25 <222> LOCATION: (0)...(0)
26 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
29 <400> SEQUENCE: 1
W--> 30 Ala Asn Ser Phe Leu Xaa Xaa Leu Arg His Ser Ser Leu Xaa Arg Xaa
31 1 5 10 15
W--> 32 Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa Ala Lys Xaa Ile Phe Gln
33 20 25 30
34 Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His
35 35 40
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 44
39 <212> TYPE: PRT
40 <213> ORGANISM: Bos taurus
42 <220> FEATURE:
43 <221> NAME/KEY: MOD_RES
44 <222> LOCATION: (0)...(0)
45 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
48 <400> SEQUENCE: 2
W--> 49 Ala Asn Ser Phe Leu Xaa Xaa Leu Arg Pro Gly Asn Val Xaa Arg Xaa
50 1 5 10 15
W--> 51 Cys Ser Xaa Xaa Val Cys Xaa Phe Xaa Xaa Ala Arg Xaa Ile Phe Gln
52 20 25 30
W--> 53 Asn Thr Xaa Asp Thr Met Ala Phe Trp Ser Phe Tyr
54 35 40
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 44
58 <212> TYPE: PRT
59 <213> ORGANISM: Homo sapiens
61 <220> FEATURE:
62 <221> NAME/KEY: MOD_RES
63 <222> LOCATION: (0)...(0)
64 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
66 <400> SEQUENCE: 3

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```

W--> 67  Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa
      68    1          5          10          15
W--> 69  Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys
      70          20          25          30
W--> 71  Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr
      72          35          40
      74 <210> SEQ ID NO: 4
      75 <211> LENGTH: 44
      76 <212> TYPE: PRT
      77 <213> ORGANISM: Bos taurus
      79 <220> FEATURE:
      80 <221> NAME/KEY: MOD_RES
      81 <222> LOCATION: (0)...(0)
      82 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
      84 <400> SEQUENCE: 4
W--> 85  Ala Asn Gly Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa
      86    1          5          10          15
W--> 87  Cys Arg Xaa Xaa Leu Cys Ser Phe Xaa Xaa Ala His Xaa Ile Phe Arg
      88          20          25          30
W--> 89  Asn Xaa Xaa Arg Thr Arg Gln Phe Trp Val Ser Tyr
      90          35          40
      92 <210> SEQ ID NO: 5
      93 <211> LENGTH: 45
      94 <212> TYPE: PRT
      95 <213> ORGANISM: Homo sapiens
      97 <220> FEATURE:
      98 <221> NAME/KEY: MOD_RES
      99 <222> LOCATION: (0)...(0)
     100 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
     102 <400> SEQUENCE: 5
W--> 103 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg
     104    1          5          10          15
W--> 105 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
     106          20          25          30
W--> 107 Xaa Asn Thr Xaa Arg Thr Thr Xaa Phe Trp Lys Gln Tyr
     108          35          40          45
     110 <210> SEQ ID NO: 6
     111 <211> LENGTH: 46
     112 <212> TYPE: PRT
     113 <213> ORGANISM: Bos taurus
     115 <220> FEATURE:
     116 <221> NAME/KEY: MOD_RES
     117 <222> LOCATION: (0)...(0)
     118 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
     120 <400> SEQUENCE: 6
W--> 121 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg
     122    1          5          10          15
W--> 123 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
     124          20          25          30

```

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W--> 125  Xaa Asn Thr Xaa Lys Arg Thr Thr Xaa Phe Trp Lys Gln Tyr
      126          35          40          45
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 36
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
136 <400> SEQUENCE: 7
137 aaattaatac gactcactat agggagaccc aagctt 36
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 42
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
147 <400> SEQUENCE: 8
148 gcactccgcg tccaggctgc tgggacggag ctctccagg aa 42
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 36
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
158 <400> SEQUENCE: 9
159 acgctccacg ttgccgtgcc gcagctcctc taggaa 36
161 <210> SEQ ID NO: 10
162 <211> LENGTH: 36
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
169 <400> SEQUENCE: 10
170 ttcctagagg agctgcggca cggcaacgtg gagcgt 36
172 <210> SEQ ID NO: 11
173 <211> LENGTH: 36
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
180 <400> SEQUENCE: 11
181 gcatttaggt gacactatag aatagggccc tctaga 36
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 42
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
191 <400> SEQUENCE: 12

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## RAW SEQUENCE LISTING

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192  gaaggccatt gtgtcttccg tgtcttcgaa aatctcccga gc                      42
194 <210> SEQ ID NO: 13
195 <211> LENGTH: 36
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
202 <400> SEQUENCE: 13
203  cagtgtgtca tccacatctt cgaaaatttc cttggc                      36
205 <210> SEQ ID NO: 14
206 <211> LENGTH: 36
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
213 <400> SEQUENCE: 14
214  gccaaaggaaa ttttcgaaga tgtggatgac acactg                      36
216 <210> SEQ ID NO: 15
217 <211> LENGTH: 36
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
224 <400> SEQUENCE: 15
225  cagtgtgtca tccacatttt cgaaaatttc cttggc                      36
227 <210> SEQ ID NO: 16
228 <211> LENGTH: 36
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
235 <400> SEQUENCE: 16
236  gccaaaggaaa ttttcgaaaa tgtggatgac acactg                      36
238 <210> SEQ ID NO: 17
239 <211> LENGTH: 45
240 <212> TYPE: PRT
241 <213> ORGANISM: Bos taurus
243 <220> FEATURE:
244 <221> NAME/KEY: MOD_RES
245 <222> LOCATION: (0)...(0)
246 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
248 <400> SEQUENCE: 17
W--> 249  Ala Asn Lys Gly Phe Leu Xaa Xaa Val Arg Lys Gly Asn Leu Xaa Arg
      250    1              5              10              15
W--> 251  Xaa Cys Leu Xaa Xaa Pro Cys Ser Arg Xaa Xaa Ala Phe Xaa Ala Leu
      252          20              25              30
W--> 253  Xaa Ser Leu Ser Ala Thr Asp Ala Phe Trp Ala Lys Tyr
      254          35              40              45
256 <210> SEQ ID NO: 18

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## RAW SEQUENCE LISTING

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03302001\I803810.raw

257 &lt;211&gt; LENGTH: 44

258 &lt;212&gt; TYPE: PRT

259 &lt;213&gt; ORGANISM: Bos taurus

261 &lt;220&gt; FEATURE:

262 &lt;221&gt; NAME/KEY: MOD\_RES

263 &lt;222&gt; LOCATION: (0)...(0)

264 &lt;223&gt; OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid

266 &lt;400&gt; SEQUENCE: 18

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W--> 267  Ala Asn Ser Phe Leu Xaa Xaa Val Lys Gln Gly Asn Leu Xaa Arg Xaa
      268    1             5             10             15
W--> 269  Cys Leu Xaa Xaa Ala Cys Ser Leu Xaa Xaa Ala Arg Xaa Val Phe Xaa
      270             20             25             30
W--> 271  Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser Lys Tyr
      272             35             40

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/803,810

DATE: 03/30/2001

TIME: 14:50:31

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03302001\I803810.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18